

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Minoru CHIDA, et al.

SERIAL NO: NEW APPLICATION

GAU:

FILED: HEREWITH

EXAMINER:

FOR: RESIN-COATED HOT DIP GALVANIZED STEEL SHEET SUPERIOR IN WELDABILITY AND CORROSION
RESISTANCE AND METHOD FOR PRODUCING THE SAME

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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STATEMENT OF RELEVANCY

Reference AO (9-221595) on Form PTO-1449:

This reference is explained in the specification.

PROBLEM TO BE SOLVED: To provide a nonpolluting metal surface treatment composition, which is excellent in adhesive properties and corrosion resistance and does not contain a chromium compound.

SOLUTION: This composition, is of a water-dispersion type and prepared, by compounding 100 pts.wt. compound, having carbodiimide bonds ($-N=C=N-$) in the molecule with 10-100 pts.wt. silica particles and 10-100 pts.wt. (solid basis) film-forming resin emulsion. A part of the silica particles and a part of the emulsion may be reacted with each other in water in the presence of an alkoxysilane compd. to form an org. composite silicate before being added to the carbodiimide compd. A galvanized steel sheet is provided which has a film formed from the composition.

Reference AP (8-67834) on Form PTO-1449:

This reference is explained in the specification.

PURPOSE: To obtain a coating type anticorrosive composition having the same or more excellent anticorrosive force as those of chromate treating agents and excellent in peeling resistance, and to provide a method for the anticorrosive treatment using the same.

CONSTITUTION: This anticorrosive composition for coated or noncoated zinc steel is produced by adding 0.1-10000ppm of sulfide ions to a solution comprising 1-80 pts.wt. of an aqueous resin and 99-20 pts.wt. of water to give a pH of ≥ 7 , or further adding a sparingly soluble sulfide in an amount of 25-200 pts.wt. per 100 pts.wt. of the aqueous resin to the mixture. A method for subjecting zinc-coated or noncoated steel to an anticorrosive treatment using the same is provided.

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

244606US0

SERIAL NO.

NEW APPLICATION

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Minoru CHIDA, et al.

FILING DATE

HEREWITH

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	9-221595	08/26/97	Japan		X
	AP	8-67834	03/12/96	Japan		X
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.